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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		s or ag LSE	gent's file reference	FOR FURTHER	ACTION	See Notification	n of Transmittal of Interna amination Report (Form P	tional CT/IPEA/416)
International application No. International filing dat PCT/FI 03/00254 03.04.2003			te (day/mont	h/year)	Priority date (daylmonth 03.04.2002	Vyear)		
C07	7D21	5/00	ent Classification (IPC) or bo	oth national classificatio	n and IPC			
ORI	ION	COR	PORATION et al					
1.	<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						kamining	
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
This report contains indications relating to the following items:								
	i		Basis of the opinion					
	11		Priority					
	III		Non-establishment of or		novelty, inv	entive step an	d industrial applicability	/
	IV V		Lack of unity of invention					
	V 🛮 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement				applicability;			
VI Certain documents cited								
VII   Certain defects in the international application			n					
VIII   Certain observations on the international application								
Date o	Date of submission of the demand				Date of co	empletion of this	report	
30.10	30.10.2003			05.07.20	004			
Name a prelimi	and m	examin	address of the international ing authority:		Authorized	d Officer		Juches Patenze
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Bérillon, Telephone	L No. +49 89 239	99-7078	The same of the sa		

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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	1.	<b>Basis</b>	of the	repor	t
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): **Description, Pages** 1-7 as originally filed Claims, Numbers 1-15 as originally filed **Drawings, Sheets** 1/2-2/2 as originally filed 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. illed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: ☐ the description, pages: the claims, Nos.:

the drawings,

sheets:

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5.		This report has been establis been considered to go beyon	hed as	s if (some of) disclosure as	the amendments had not been made, since they have filed (Rule 70.2(c)).		
		(Any replacement sheet contreport.)	aining	such amendi	ments must be referred to under item 1 and annexed to this		
6.	Add	ditional observations, if necess	ary:				
111	. No	n-establishment of opinion w	vith re	gard to nove	elty, inventive step and industrial applicability		
1.	The obv	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:					
		the entire international application,					
	$\boxtimes$	claims Nos. 1-15 (part)					
		because:					
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos could be formed.	s. are s	o inadequate	ely supported by the description that no meaningful opinion		
	$\boxtimes$	no international search report	has be	en establish	ed for the said claims Nos. 1-15 (part)		
2.	or a	meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative structions:					
		the written form has not been furnished or does not comply with the Standard.					
		the computer readable form h	as not	been furnish	ed or does not comply with the Standard.		
v.	Rea citat	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	State	tement					
	Nov	eltý (N) ¯¯¯¯	Yes: No:	Claims Claims	3-6, 8, 11-13		
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-15		
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-15		

Form PCT/IPEA/409 (January 2004)

2. Citations and explanations

see separate sheet

**EXAMINATION REPORT - SEPARATE SHEET** 

#### Item III

Only part of the claims in respect of which an International Search Report has been established will be examined (Rule 66.1(e) PCT) i.e. only part of claims relating to the alpha-2c antagonists cited in the description useful for treating diseases or symptoms according to claims 1-15.

#### Item V

1 Prior art

Reference is made to the following document:

D1: WO 01 64645

2 Novelty (Article 33(2) PCT)

> D1 discloses the use of alpha-2c adrenoceptor antagonists such as acridin-9-yl-[4-(4methylpiperazin-1-yl)phenyl]amine (see example 1, page 21) for the treatment of Parkinson's disease and schizophrenia (see page 39, line 29 to page 40 line 7). Accordingly, claims 1, 2, 7, 9, 10, 14 and 15 which relate to psychotic cognitive impairment, Parkinson disease and schizophrenia lack novelty.

> Novelty is not affected by the further prior art documents cited in the international search report which do not disclose any alpha-2c antagonists cited in the description.

3 Inventive step (Article 33(3) PCT)

> The technical problem underlying the present application lies in the provision of a medicament for the treatment of various diseases wherein the symptom are hallucination, delusion, parathymia etc. (see claims 2-12). Said problem has been addressed in the present application with the provision of acridin-9-yl-[4-(4methylpiperazin-1-yl)phenyl]amine which enhances the prepulse-inhibition of startle reflex (see figure 1B). It is however noted that said acridin-9-yl-[4-(4-methylpiperazin-1-yl)phenyl]amine is already disclosed in D1 as being an alpha-2c adrenoceptor antagonists useful for the treatment of schizophrenia (see D1, page 39, line 35). Accordingly, part of the claimed subject matter which relate to symptoms of

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**EXAMINATION REPORT - SEPARATE SHEET** 

schizophrenia such as claims 3-6 and 8 is anticipated by D1 and cannot be considered as an inventive solution of the above defined technical problem. For part of the claimed subject-matter which relates to diseases not disclosed in D1 (Tourette's symdrom, blepharospasm, focal dystonias etc.) there seems to be no basis for inventive step at present since no evidence can be found in the present application that acridin-9-yl-[4-(4-methylpiperazin-1-yl)phenyl]amine is effective in the treatment of said diseases.